PATENT COOPERATION TREATY

CHARM 659 AND	D J. LONG SCIENCES, INC OVER STREET ICE, MA 01843			WR	PCT
LAWRE		1032		INTERNATIO	ONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	1 9 MAY 2005
Applicant	's or agent's file r	eference		FOR FURTHER	ACTION See paragraph 2 below
0656-027					See paragraph 2 below
Internatio	nal application No).	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US0			10 December 2004 (10.		12 December 2003 (12.12.2003)
Internation	nal Patent Classif	ication (IPC)	or both national classificat	ion and IPC	
		d US C1.: 422	2/1, 2, 21, 38, 307; 435/2;	165/65	
Applicant					
CHARM	SCIENCES, INC				
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1. Ims	opinion contains i	naications fer	ating to the following item	is.	•
\boxtimes	Box No. I	Basis of the	e opinion		
	Box No. II	Priority			
	Box No. III	Non-establ	ishment of opinion with re	gard to novelty, inve	ntive step and industrial applicability
	Box No. IV	Lack of uni	ity of invention		
\boxtimes	Box No. V		statement under Rule 43 <i>bis</i> y; citations and explanatio		o novelty, inventive step or industrial satement
	Box No. VI	Certain doc	cuments cited		
	Box No. VII	Certain def	ects in the international ap	plication	
	Box No. VIII	Certain obs	servations on the internation	nal application	
2. FUR	THER ACTIO	N			
Interr Autho	national Prelimina prity other than the	ary Examinir	ng Authority ("IPEA") e:	xcept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses a ne International Bureau under Rule 66.1bis(I tered.
IPEA	a written reply to	ogether, when		lments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailin whichever expires later.
For fi	arther options, see	Form PCT/I	SA/220.		
3. For fu	urther details, see	notes to Form	PCT/ISA/220.		
Name and	mailing address o	of the ISA/ US	3	Authorized office	г
	Mail Stop PCT, Attr Commissioner for P			Krisanne Jastrzal	0
	P.O. Box 1450				
	Alexandria, Virginia	22212 1460		Telephone No. 7	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Internat	ional ap	plication N	0.	

	ENTERNATIONAL SEARCHENG AUTHORITT PC1/US04/412/8
Box N	o. 1 Basis of this opinion
	regard to the language, this opinion has been established on the basis of the international application in the language in villed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the clation, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing .
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	ional comments:

Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/41278

Box No. V	Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial
	applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims NONE	YES
	Claims 1-96	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-96	NO
Industrial applicability (IA)	Claims 1-96	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1-96 lack novelty under PCT Article 33(2) as being anticipated by Charm et al., U.S. patent No. 5,389,335.

Charm et al., teach reducing or inactivating viral and bacterial contamination of a proteinacious solution where the solution is rapidly heated using microwave radiation, followed by rapid cooling, both to temperatures and within the time parameters instantly claimed. The system included a disposable cartride employ TEFLON tubing, of a diameter as instantly claimed, for flow of the solution within the microwave field. The cartridge mounted on a removable plate. See column 1, lines 19-61, column 2, lines 10-16, 24-28 and 45-60, column 5, lines 10-68, particularly 50-55, column 6, lines 1-68 and column 8, lines 25-35.

Claims 1-96 lack novelty under PCT Article 33(2) as being anticipated by Charm U.S. patent No. 4,975,246.

Charm teaches reducing or inactivating viral and bacterial contamination of a proteinacious solution where the solution is rapidly heated using microwave radiation, followed by rapid cooling, both to temperatures and within the time parameters instantly claimed. See column 1, lines 29-32, column 2, lines 5-68, column 3, lines 25-32, column 5, lines 3-15, and column 6, lines 49-55.

